



THE UNIVERSITY OF ARIZONA  
TUCSON, ARIZONA 85721

CR-129576

COLLEGE OF LIBERAL ARTS  
DEPARTMENT OF BIOLOGICAL SCIENCES

December 20, 1972

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TO: R. Stonesifer, Technical Officer, NASA

FROM: D. Slaymaker, Administrative Assistant  
Proposal No. 327-Lowe, University of Arizona for  
Contract No. NAS5 - 21819

RE: Type I Report No. 1 ("Determination of Species"  
Proposal No. 327-Lowe), for first two month period  
executed October 4, 1972.

NTIS HC \$3.00

"The objective of this study is the determination of specific spectral signatures for dominant desert scrub plant species (and their soil surface backgrounds) with use of overflight coverage as an intermediate link between permanent ground truth points and satellite imagery."

1. Mr. Dana M. Slaymaker has been hired as chief administrative assistant for this project. It is requested that all future correspondence, information, or material from standing orders be sent directly to him (rather than to the Principal Investigator, Dr. Charles Lowe) at the following address:

The University of Arizona  
Dept. of Biological Sciences  
College of Liberal Arts  
Tucson, Arizona 85721

2. Materials to date from standing orders have been received and catalogued. Work has begun to generate a data analysis plan with equipment available through the Offices for Arid Lands Studies.

3. Necessary film for ground truth has been ordered from a local representative of Kodak Corporation, and is expected within one month.

(E72-10318) DETERMINATION OF SPECIES  
Bimonthly Report C.H. Lowe, et al  
(Arizona Univ., Tucson.) 20 Dec. 1972  
2 p

N73-13367

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R. Stonesifer  
Technical Officer  
NASA

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4. Geological and soil survey maps of the primary test site in Avra Valley, Arizona, have been ordered; vegetation type and coverage information is being acquired from several sources.

5. Miscellaneous equipment has been secured and arrangements made for camera and equipment maintenance.

At present, initiation of the spectral signature determination is impeded by the lack of a portable spectrometer, which was to be added to our instrument package of two 35mm cameras and a hand-held radiometer. As indicated in attachment A (2nd page), the spectrometer is to be provided by the A. R. E. T. S. through the Office of Arid Lands Studies at the University of Arizona. O. A. L. S. has the unit on order, but has not yet received it from the manufacturer. Dr. Larry K. Lepley, A. R. E. T. S., Project Manager, is constructing another portable spectrometer as an in-house project. It is anticipated that one or the other will be ready by January or February of 1973 forthcoming.

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